BRIDGE INSPECTION REPORT

WO CC WE PD Ver Date 10/14/2008 Agency: Washington State BAM 0 0 0 2 Status: Released Printed on: 10/14/2008 Program Mgr: Harvey L. Coffman								
Bridge No. 9/134	Page 1 of	3	Structure	Туре	CA			
Bridge Name PILCHUCK CR	Route	00009	Intersectin	g PILCHUCK CR				
Structure ID 000000EX	MilePost 34.85 Location				5.4 N JCT SR 530			
Inspector's Signature GAS IDent# G0709	Co-Inspector's Sig	nature	CRT					
					Inspec	tions Perfo	rmed:	
4 5 Structural Adqcy (657) N Pier/Abut/Protect	(679) 1916	Y	ear Built (332)	IT N	T HRS	Date	Rep Type	
2 Deck Geometry (658) 2 Scour	(680) 0	Y	ear Rebuilt (336)	Y 2	4 1.0	8/28/2008	Routine	
9 Underclearance (659) 8 Approach Rdwy	(681) F 6	1 C	per Rating (551)				Fract Crit	
5 Operating Level (660) 7 9 Retaining Walls	(682) F 3	6 Ir	nv Rating (554)				Underwater	
3 Alignment Adqcy (661) 9 Pier Protection	(683) A	C	Open Close (293)				Special	
6 Waterway Adqcy (662) 1 Bridge Rails	(684) 9999	V	ert Over Deck (360)				Interim	
9 Deck Overall (663) 0 1 Transition	(685) 0000	V	ert Under (374)				Equipment	
9 Drains Condition (664) 1 Guardrails	(686) N	V	ert Und Code (374)			A Property	Damage	
5 Superstructure (671) 1 Terminals	(687) 0.00	A	sphalt Depth				Safety	
1 Number Utilities (675) N Revise Rating	(688) 55	25 S	peed Limit				Short Span	
4 5 Substructure (676) Photos Flag	(691)		. !	Tota	ıl: 1.0			
8 Chan/Protection (677) N Soundings Flag	(693)				٠, ٠			
9 Culvert (678) Measure Clearanc	e (694)			Suff	Rating:	41.09 SD	59.87 FO	

1531	BMS Elements 145 to 800								
Element	Element Description	Total	Units	Env	State 1	State 2	State 3	State 4	
145	Earth Filled Concrete Arch	120	LF		40	15	65	0	
212	Concrete Submerged Pier Wall	22	LF		17	0	5	0	
215	Concrete Abutment	89	LF		85	0	4	0	
220	Concrete Submerged Pile Cap/Footing	3	EA		2	0	1	0	
330	Metal Bridge Railing	240	LF		236	4	0	0	
361 Scour		3	EA		0	0	3	0	
800	Asphaltic Concrete (AC) Overlay	2,016	SF		1,999	3	14	0	

Notes 0 to 800

0 Bridge oriented south to north in accordance with route direction.

145 Earth Filled Concrete Arch in the bottom has many scattered areas of poor consolidation with short transverse and longitudinal hairline leaching cracks. Transverse and longitudinal construction joints are openly cracked with heavy leaching and rust staining. Small length of exposed rusty ties are visible in areas. Spring lines at piers have distinct full width transverse hairline cracks that are leaching heavy and are rust stained. See photo #17.

East and west faces of arch have many small bottom edge spalls up to 2" deep and areas of heavy scaling with most severe scaling on the west side. Top west edge of arch has many edge spalls below the curb over Span 1. See photos #18, #19 and #20. The west corners of the arch at Piers 1 and 3 are heavily edge spalled with the largest being at Pier 3 up to 24" across by 7" deep and extending into the wingwall with horizontal and diagonal hairline cracking. See photo #9.

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WO CC WE PDVer Date 10/14/2008 Agency: Washington State BAM 2 0 0 Status: Released Program Mgr: Harvey L. Coffman 0 Printed on: 10/14/2008 9/134 Page 2 of 3 CA Bridge No. Structure Type **Bridge Name** PILCHUCK CR Route 00009 Intersecting PILCHUCK CR 00000FX Structure ID MilePost 34.85 Location 5.4 N JCT SR 530

	Notes 0 to 800
212	Concrete Submerged Pier Wall at Pier 2 has several scattered hairline vertical and horizontal leaching cracks with large areas of poor consolidation. The east end is heavily spalled up to 1" deep around the bottom with approximately 4 sq. ft. of delamination. See photo #16.
215	Concrete Abutment quantities include 12 ft. wing walls at each corner. Abutment and wing walls have areas of heavy moss growth and are abraided at the high water line with several hairline cracks, areas of poor consolidation and scale. The northwest corner is spalled out over a 2 ft. length and up to 8 " deep at the top of the footing. See photo #10.
220	Concrete Submerged Footings are exposed at all piers and have scattered minor top edge spalls with areas of scale. Pier 1 footing is cracked open to 1/16" across the top southwest corner and down the vertical face.
330	Metal Bridge Railing is thrie beam mounted to steel posts with a pressure treated timber curb. East rail over Span 2 has minor traffic damage with the top flange bent down approximately 2" over 4 ft.
361	Pilchuck Creek flows east to west under both spans with main channel below Span 1 bearing against Pier 1 and southeast wing wall on 8/28/2008. Tops of footings are exposed at all piers, but have new riprap in place in 2008. See "Scour Repair Plan" attached to files tab. At Pier 1, southeast corner, previously noted undermining up to 1 ft. deep and extending up to 18" back under abutment and wing wall footing is no longer visible due to new riprap. Minor debris has accumulated at the east end of Pier 2. See photos #11, #12, #13, #14, #15 and #16.
661	Alignment Adequacy for this posted single lane bridge is reduced by low visibility approach from the north and a speed reduced blind curve from the south.
664	Drains are permanently blocked.
671	Superstructure coded "5" due to deterioration of the Luten arch. See element note 145.
675	Utility consists of one 4" diameter steel pipe suspended from outriggers on the west side of the bridge.
676	Substructure coded "5" based on previously noted exposure and undermining at the Pier 1 footing. See BMS element 361.
677	Channels are heavily vegitated with new riprap below bridge. See photos #21 and #22.
680	Pier 2 is scour critical if estimated pile tip elevations are accurate. Some channel degradation has occurred.

681 Approach Roadways are smooth. The southeast shoulder has ongoing erosion that has been mitigated using 4" quarry spalls and built up ACP.

693 Soundings taken 8/28/2008. See "Scour Field Evaluation" attached to files tab.

800 ACP is not considered an overlay, but is a pavement in this case, and is recorded for purposes of tracking deterioration across the bridge.

Pavement has longitudinal cracking with areas of raveling scattered throughout.

There are two areas, 10 sq. ft. over Span 1 and 4 sq. ft. over Span 2 that are raveling with up to 1" of settlement and potholing.

	Repairs to		
Repair No Pr R	Repair Description	Date Noted	Verified

	154 S. J.	nsp	ection	s Pe	rforn	ned and	d Resoui	rces Required
Report Type	<u>Date</u>	<u>IT</u>	Frq	<u>Hrs</u>	<u>Insp</u>	<u>CertNo</u>	Coinsp	<u>Note</u>
Routine	8/28/2008	Υ	24	1.0	GAS	G0709	CRT	
Resources	Use	ı	Hours	N	lin	Req	Max	Notes
Scheduling Restrictions	LWTR			LW	TR	LWTR	LWTR	Inspection of Pier 1 footing requires low water.

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	Sticky Notes							
Creator	Created	Table Reference	Notes					
			(No sticky notes for this structure)					